

# UNIQUE IDENTIFICATION (UID)



## **Unique Identification (UID) of Items**



# DoD Challenges<sup>1</sup>

- ◆ Almost half of DoD's \$63.3 billion inventory as of September 2001 exceeds war reserve or current operating requirements
- ◆ DoD is unable to maintain adequate accountability over material shipped between contractors and DoD
- ◆ The services all experience operations and maintenance problems because of a lack of key spare parts, specifically aviation spares
- ◆ The services are not adequately monitoring, reporting, or getting reimbursement for defective spare parts received from contractors

<sup>1</sup> GAO-03-98 DoD Challenges



# DoD Vision for Item Marking

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To implement a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.

Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.



# DoD's Approach to UID

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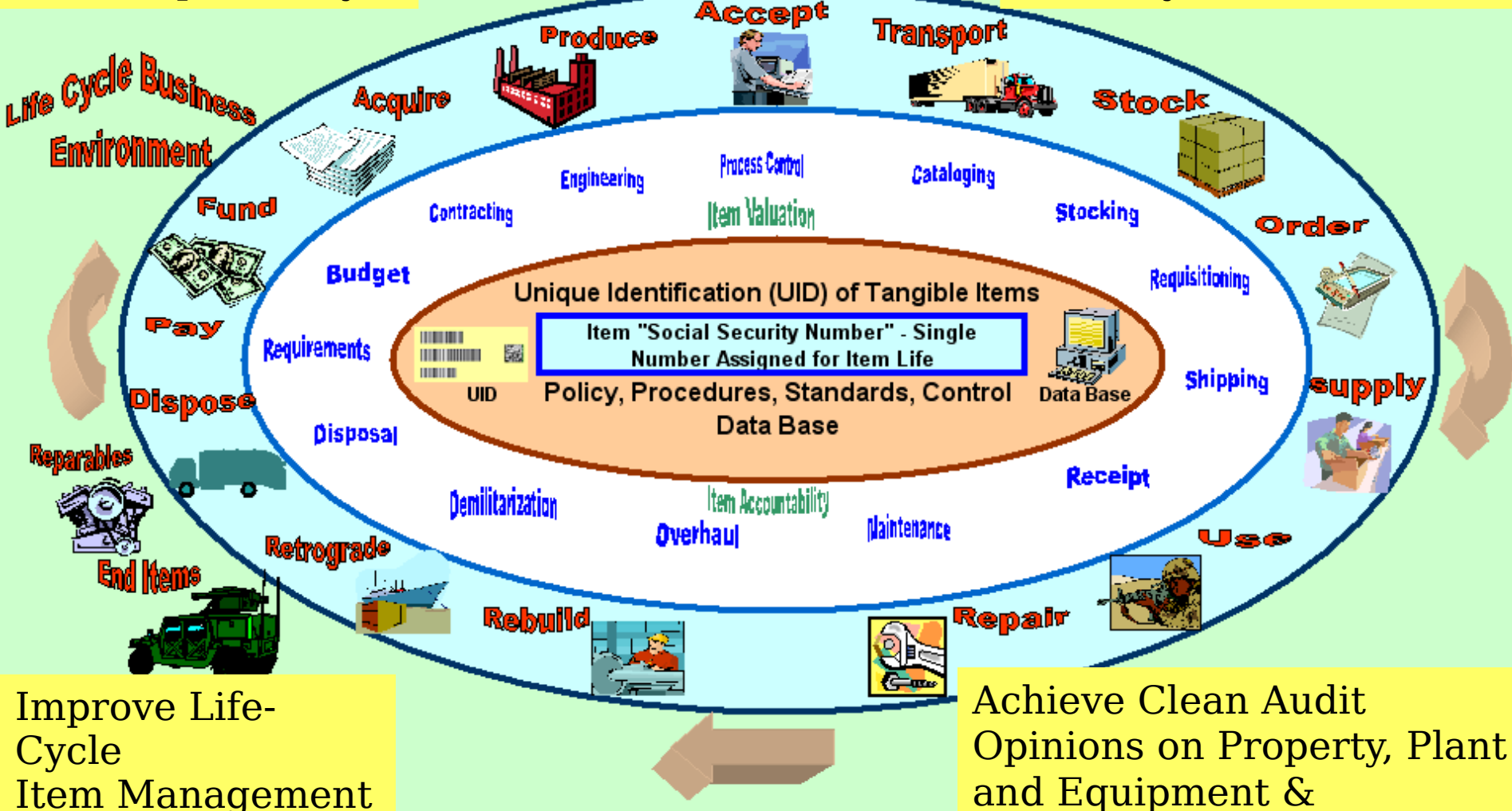
- ◆ The Department of Defense (DoD) established a joint international/industry/government Integrated Product Team (IPT) to achieve the following goals:
  - Identify the UID data standard
  - Develop a feasible and rapid implementation strategy
- ◆ Initial four simultaneous efforts
  - Policy development
  - Standards definition & procedures
  - DFARS case (regulations updates)
  - Implementation planning



# UID Role - Business Enterprise Architecture

Improve Data Quality and Interoperability

Enhance Total Asset Visibility





# Unique **ID**entification (**UID**) is....

**UID is . . .**

**. . . the set of data for tangible assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted business applications and**

**EID**

370521



**Original Part Number**

1234



**Serial Number**

786950





# UID Constructs

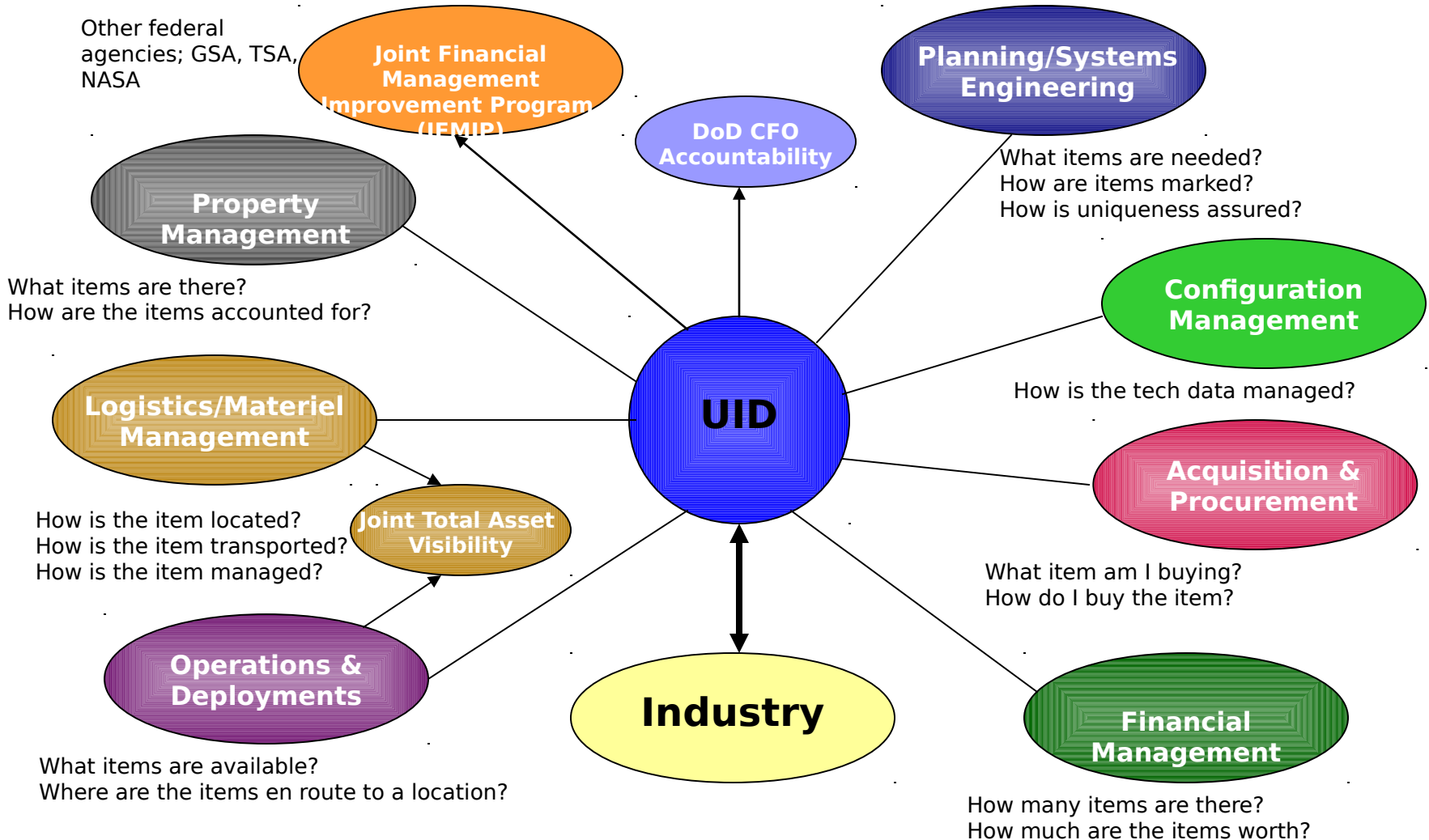
The components that make up the UID are identified in the table below. Each enterprise has two options for creating the UID.

	UID Construct #1	UID Construct #2
Based on current enterprise configurations	If items are serialized within the Enterprise	If items are serialized within Part Number
UID is derived by concatenating the data elements IN ORDER:	Issuing Agency Code* Enterprise ID Serial Number	Issuing Agency Code* Enterprise ID Original Part Number Serial Number
Data Identified on Assets Not Part of the UID (Separate Identifier)	Current Part Number	Current Part Number

\*The Issuing Agency Code (IAC) represents the registration authority that issued the enterprise identifier (e.g., Dun and Bradstreet, EAN.UCC). The IAC can be derived from the data qualifier for the enterprise identifier.



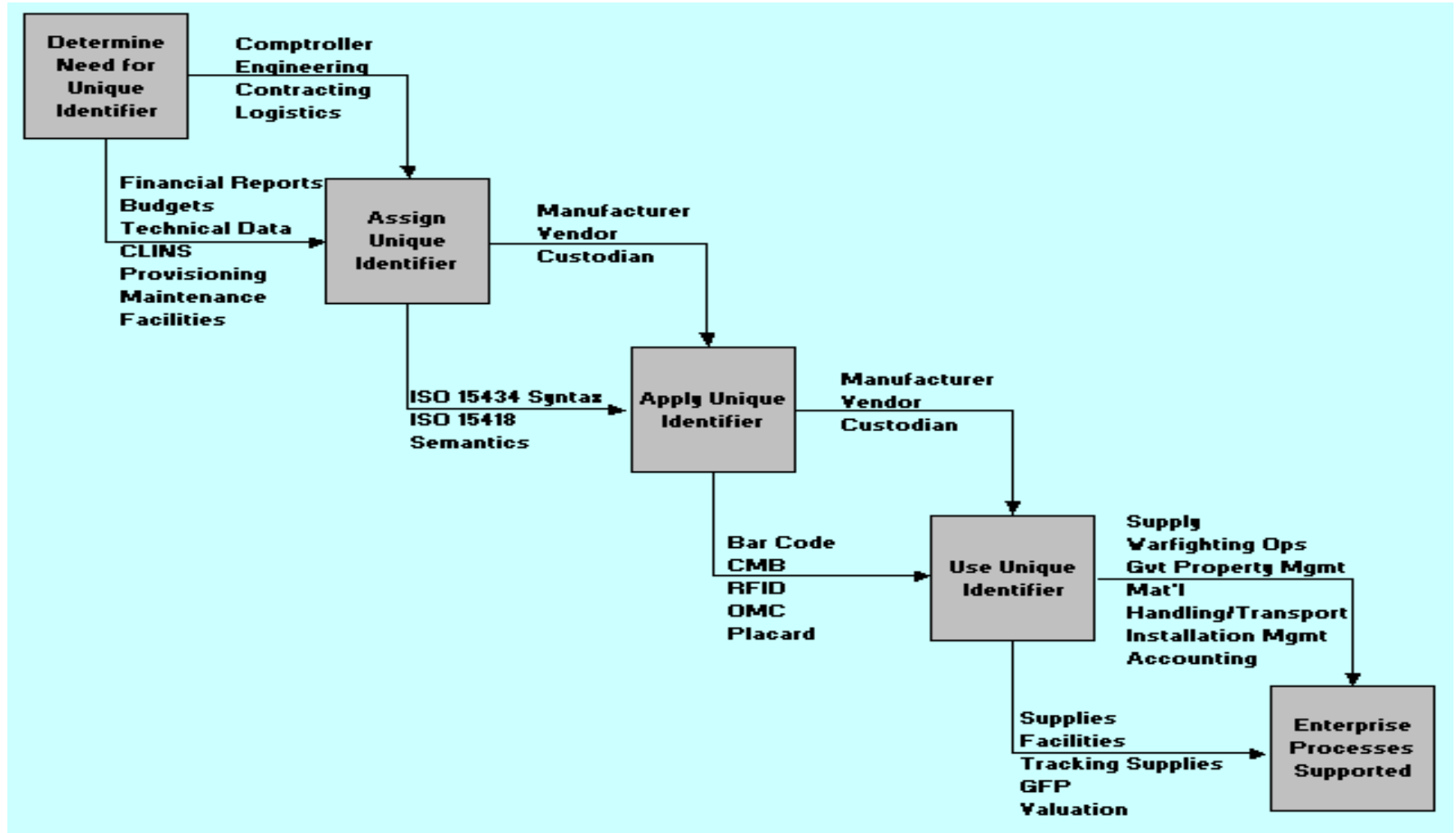
# UID Interfaces







# UID Interface Flow





# UID Policy Overview

- ◆ Final UID policy released on July 29<sup>th</sup> established UID as a mandatory DoD requirement on all solicitations issued on or after January 1, 2004.
- ◆ UID is required for all property items delivered to the Government if:
  - Acquisition cost is more than \$5,000
  - Item is serially managed, mission essential, or controlled inventory piece of equipment or reparable; or a consumable item or material requiring permanent identification
  - Item is a component of a delivered item and PM requires UID
  - UID or DoD-recognized equivalent is available
- ◆ Wide Area Workflow (WAWF) will be modified to capture UID and WAWF will be a mandatory payment requirement no later than January 1, 2005.



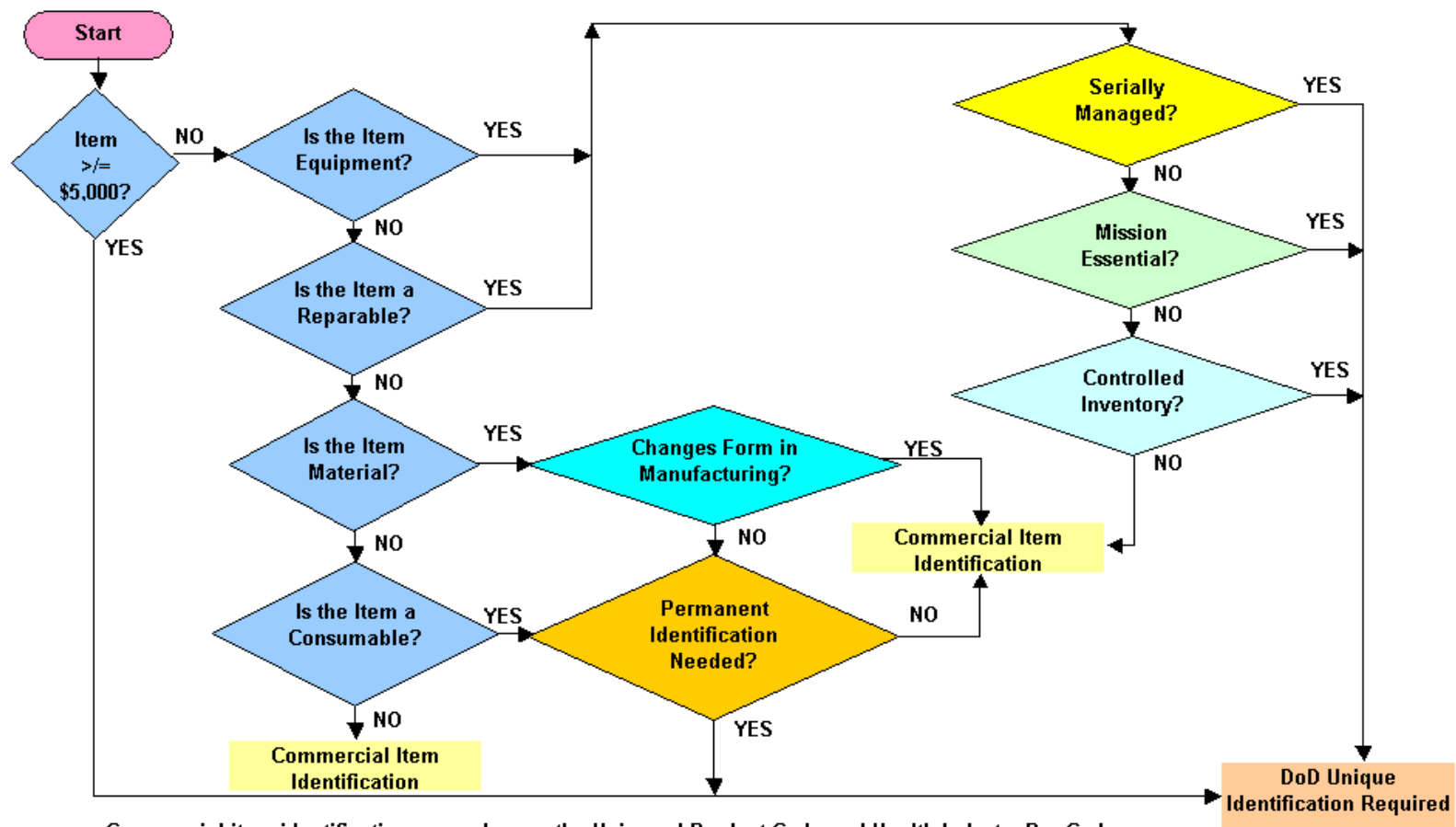
# UID Policy Overview

- ◆ Approval of a new format code to ISO/IEC 15434 to allow Text Element Identifiers (TEIs) is required and being pursued.
- ◆ An interim DFARS rule for capturing the acquisition cost of tangible items and placing UID on them at acquisition was published on October 10, 2003.
- ◆ A DoD UID Program Management Office will be established to manage UID implementation.
- ◆ Specific guidance related to UID requirements can be found by referring to the following sources:
  - DFARS dated 10 October 2003
  - DoD Guide to Uniquely Identifying Items
  - [www.acq.osd.mil/uid](http://www.acq.osd.mil/uid)



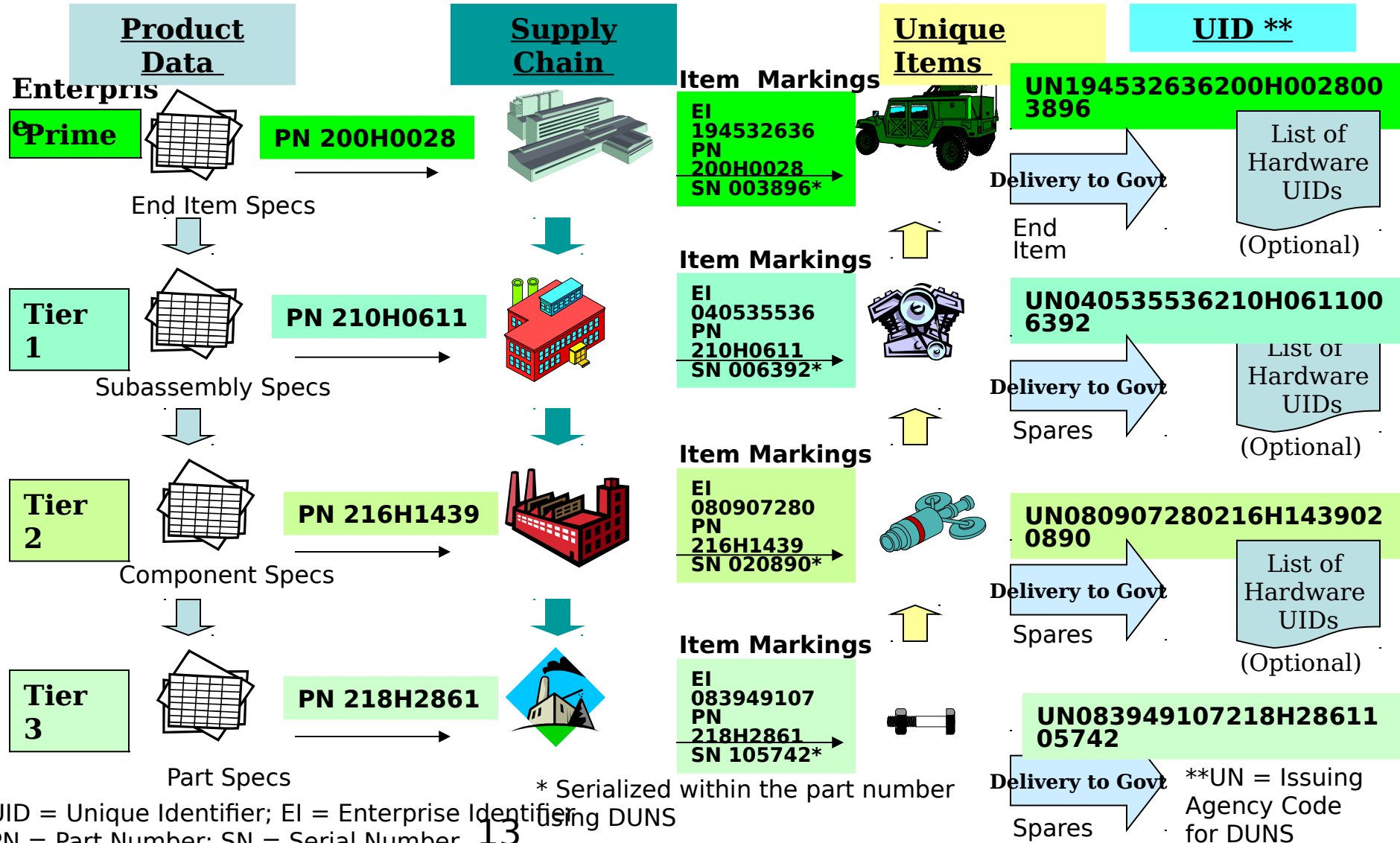
# Require the UID

## Which Items Require a Unique Identifier





# UID in the Supply Chain





# UID/ Logistics Outcomes

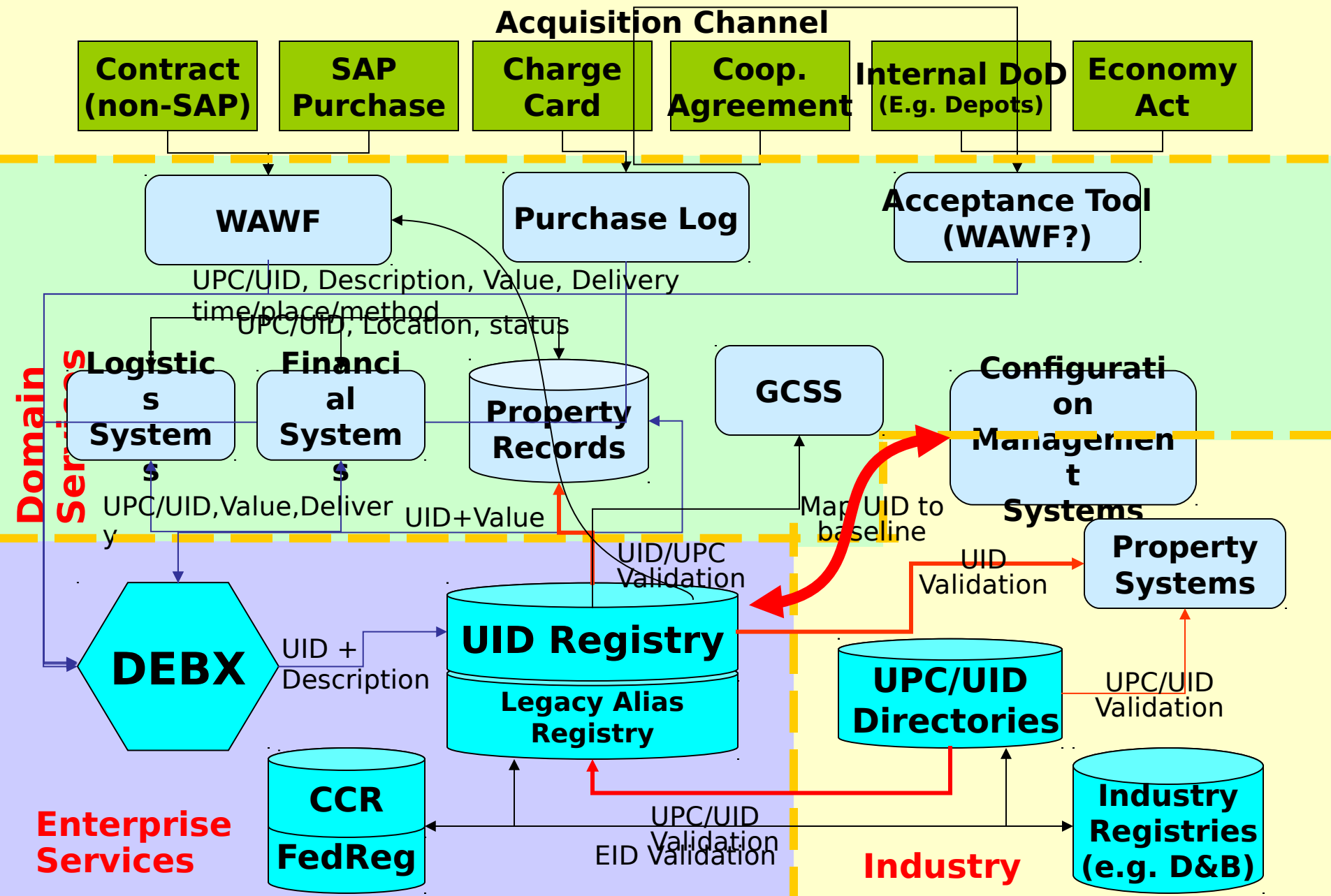
- ◆ Comprehensive, timely data about each uniquely identified item throughout the supply chain
  - Generation, collection and analysis of maintenance data
  - End-to-end tracking and traceability of unique items
  - Reliability and maintainability information on each item throughout its life cycle
- ◆ Improved supply chain efficiency
  - Administrative cost reduction
  - Reduced stock levels
  - Simplicity, standardization, speed and certainty in automated data capture and electronic information exchange
- ◆ Integrated transportation and movement of individually identified items
- ◆ Leveraged commercial technologies and practices



# UID Data Capture

- ◆ UID Capture
  - WAWF
    - Fixed price
    - Third party shipping
    - Cost type
  - Other collection scenarios
    - Reporting of embedded UIDs
    - Charge Card
    - Non-contractual acquisition
    - Internal DoD (Depot) marking
    - Other government agency marking
- ◆ UID Data Retrieval
  - DoD Registry development
  - Registry access rules
  - Use of third party UID-equivalent registries

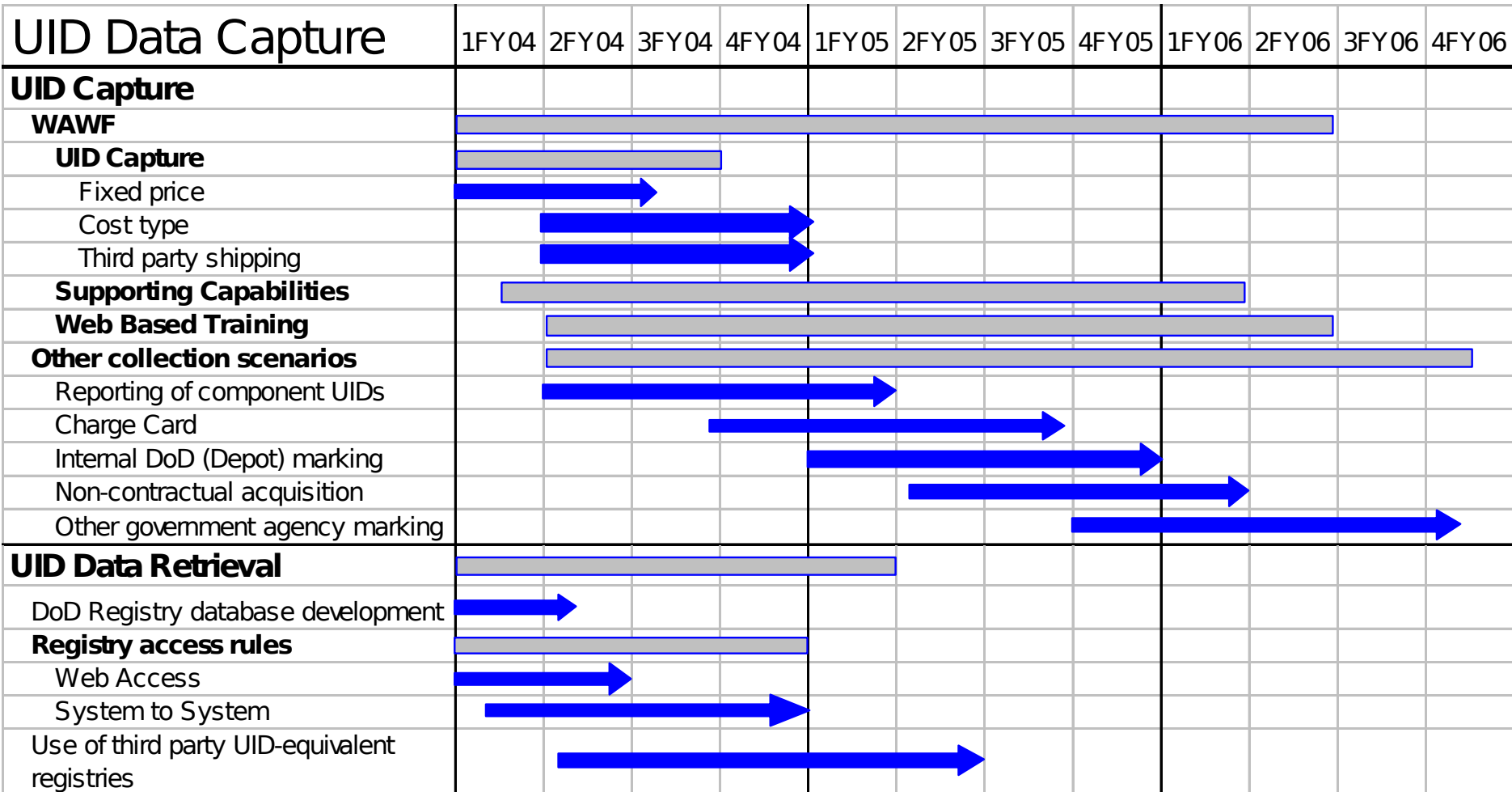
# UID Data Capture and Reuse







# UID Data Capture Schedule





# UID “Pedigree” Data

## End Item Data (15)

- ◆ UID (Concatenated)
- ◆ Descriptive Data
  - UID Components (5)
  - Item Description
  - Unit of measure
- ◆ Acquisition Data
  - Contractor
  - Contract Number
  - CLIN/SLIN/ELIN
  - Price
  - Acceptance Code (identifies acceptor)
  - Acceptance Date
  - Ship to code

## Embedded Items of End Items (10)

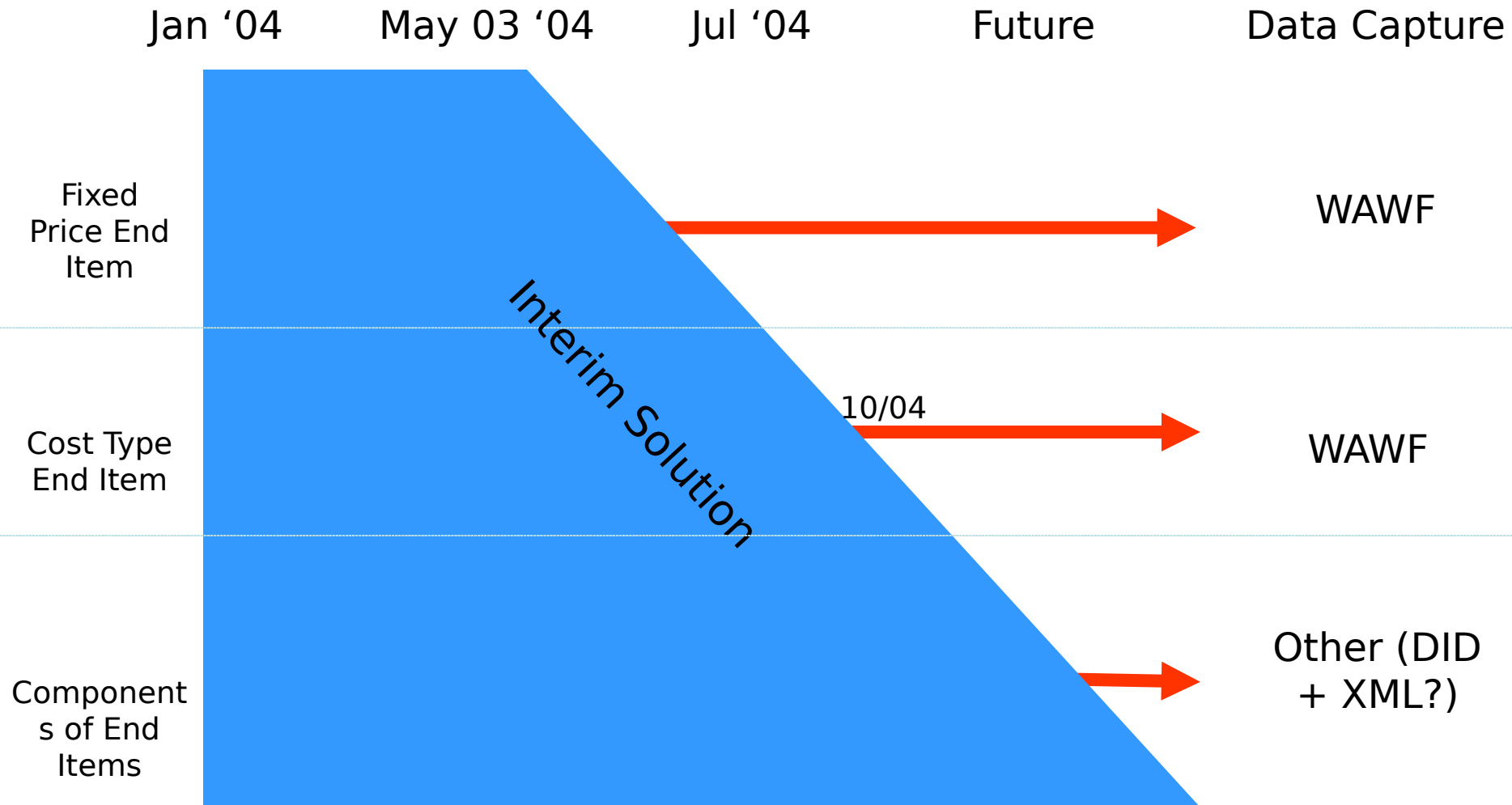
- ◆ UID (Concatenated)
- ◆ Descriptive Data
  - UID Data Elements (5)
  - Item Description
  - Unit of measure
- ◆ Parent UID as of delivery date
- ◆ GFP flag

## Item Tracking (TBD)

- ◆ Current parent
- ◆ “As of” date



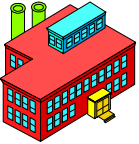
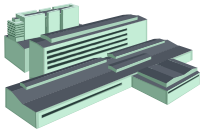
# Interim UID Timeline





# Valuation of UID CLINs

## Supply Chain



## Items Qualifying for UID

### Item Markings

EI  
194532636  
PN  
200H0028  
SN 003896\*



Delivery to Govt

End Item

## UID \*\* Deliverables

UN194532636200H002800  
3896  
CLIN Valuation

### Item Markings

EI  
040535536  
PN  
210H0611  
SN 006392\*



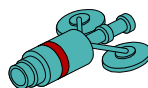
Delivery to Govt

Spares

UN040535536210H061100  
6392  
CLIN Valuation if  
delivered separately

### Item Markings

EI  
080907280  
PN  
216H1439  
SN 020890\*



Delivery to Govt

Spares

UN080907280216H143902  
0890  
CLIN Valuation if  
delivered separately

### Item Markings

EI  
083949107  
PN  
218H2861  
SN 105742\*



Delivery to Govt

Spares

UN083949107218H28611  
0574  
CLIN Valuation if  
delivered separately

UID = Unique Identifier; EI = Enterprise Identifier Serialized within the part number  
PN = Part Number; SN = Serial Number using DUNS

\*\*UN = Issuing Agency  
Code for DUNS



# Key DoD & External UID Stakeholders

## DoD Stakeholders

- OSD
- All Services
- Joint Staff
- Defense Contract Management Agency
- Defense Logistics Information Service
- UK MoD

**UID background materials and actions items are available**  
**[www.acq.osd.mil/uid](http://www.acq.osd.mil/uid)**

## Industry Stakeholders

- Aerospace Industries Association (AIA)
- Government Electronics Association (GEIA)
- Uniform Code Council (UCC)
- Air Transport Association (ATA)
- Various AIT suppliers
- New York City Transit Authority
- UK Council for Electronic Business



# UID Joint Requirements Implementation Board (JRIB)

**USD (AT&L)**

## **Joint Requirements Implementation Board-UID**

Lead: LeAntha Sumpter (Acquisition)

Co-chairs: Trish Vanbelle (Finance)

Alan Estevez (Logistics)

Senior Executive Council Advisor: Brad Berkson

AIT Senior  
Steering  
Group

CFO Rules  
Group

BEA  
Domain  
Owners/PM

Integrated  
Acquisition  
Environment

UID/PC  
JPMO

ISO  
Standards  
Working  
Group

DFARS  
Working  
Group

Business  
Rules  
Integration  
Group

UID/Systems  
Engineering  
Working  
Group

AIS  
Technical  
Interface  
Working  
Group

Enterprise  
Working  
Group

**TBD**

Inspection  
&  
Acceptance  
Working  
Group

UID/RFID  
Working  
Group

UID/PBL  
Working  
Group

**TBD**

UID/  
Maintenance  
Working  
Group

**TBD**

Grants, OT  
Working  
Group

**TBD**

UID/Export  
Controls  
Working  
Group

**TBD**

JRB WAWF

UID  
Registry



# UID Policy Implementation Timeline

## Policy

- ◆ Final UID policy (Implementation effective Jan 2004) - July 2003
- ◆ RFID policy - October 2003
- ◆ UID Implementation for Contracts with Govt Furnished Property - Jan 2005

## DFAR Cases

- ◆ Advanced Notice of Public Rulemaking released - May 2003
- ◆ Public Hearing - May 2003
- ◆ DFARS Rule Published in Federal Register - 10 Oct 2003
- ◆ Comments Due on DFARS Rule - 10 Nov 2003

## ISO 15434 Change Request

- ◆ Finalize "New Work Item Proposal" - January 2004
- ◆ Gather change request support - ongoing
- ◆ ISO 15434 amendment issued - Jun 2005

## WAWF Modifications

- ◆ UID Capability IOC - April 2004